

Parcel C Remedial Action Project Update for Parcel C Hunters Point Naval Shipyard San Francisco, California

Tony Konzen
Project Manager
Contracted Support to NAVFAC BRAC PMO

BCT Meeting January 23, 2013

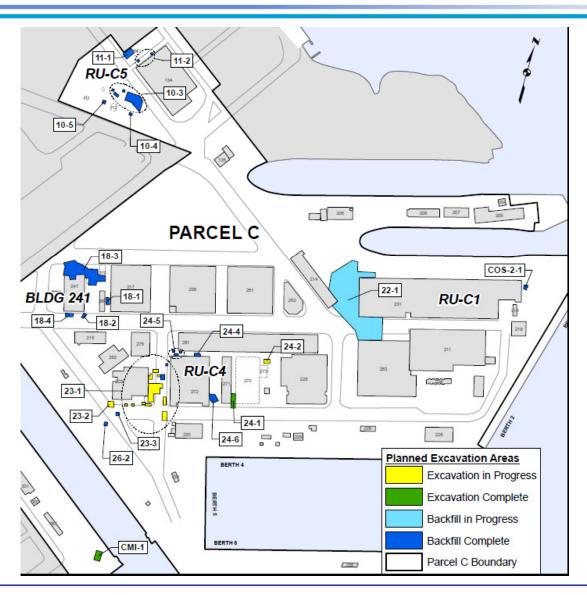




- Overview Status Map
- Excavation Status
 - -RU-C5
 - -RU-C1
 - -RU-C4
 - -Building 241 Area
- Groundwater Remedy Status
- SVE Systems Progress
- What's Next
- Schedule

Parcel C Excavation Progress

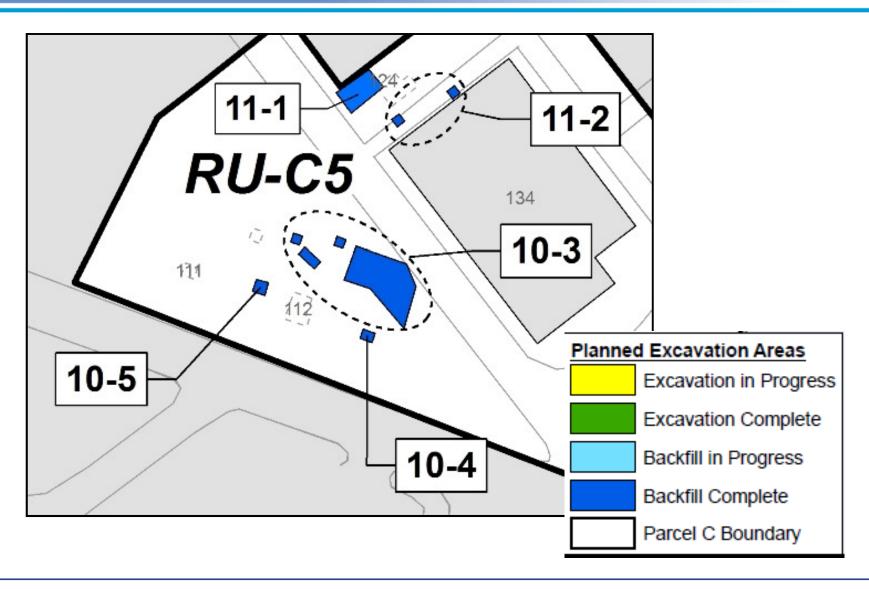




As of Jan 10, approximately 25,100 bcy have been excavated and stockpiled. Approximately 26,000 bcy estimated to be removed as part of Parcel C Remedial Action.

Parcel C RU-C5





RU-C5 Summary

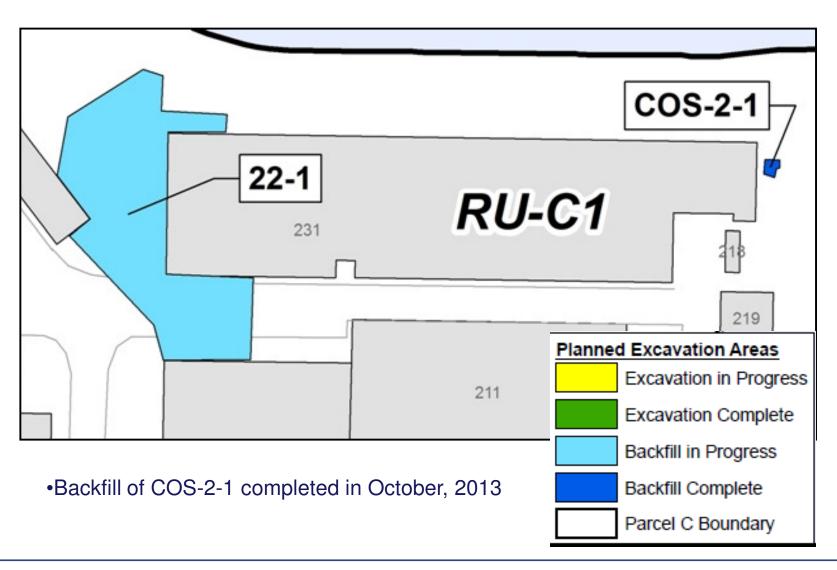




• Excavations10-3, 10-4,10-5, 11-2 were backfilled to grade in November. Area will undergo final compaction and grading this week.

Parcel C RU-C1

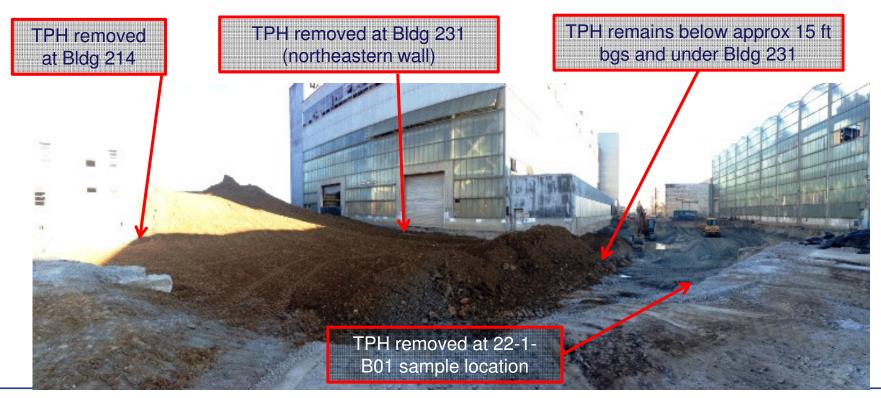




RU-C1 Summary (22-1)

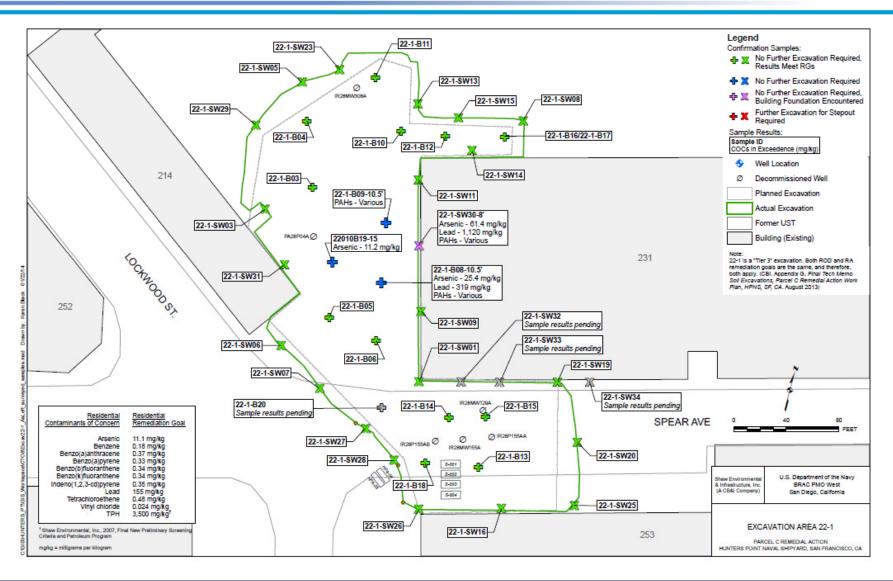


- Excavation 22-1- Removal of CERCLA COCs completed. Backfilling with bridging material and clean fill to access step out locations is in progress.
- Oily material at corner of Bldg 214 and 231 were addressed in January. Further TPH over-excavation along the edge of Building 231 is underway.



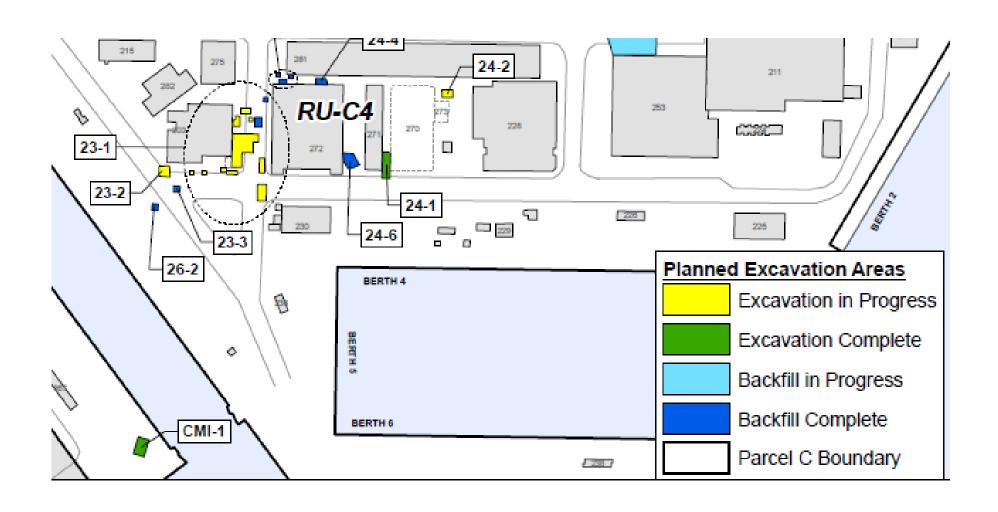
RU-C1 Summary (cont'd) (22-1)





Parcel C RU-C4





RU-C4 Summary (23-1)





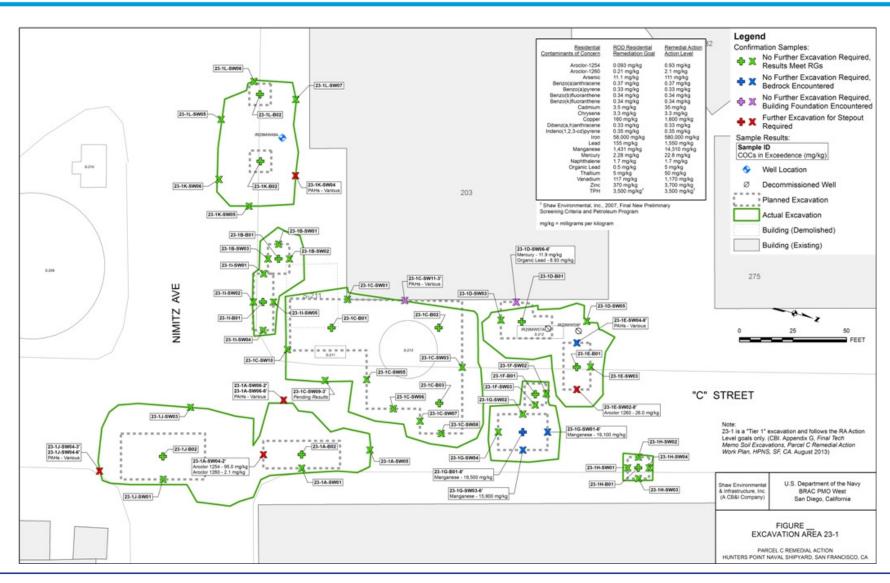




BRAC Program Management Office.

RU-C4 Excavation 23-1





RU-C4 Summary (23-2, and 23-3)





- Excavations 23-2 and 23-3 were excavated by others
- Confirmation samples were collected insitu
- elevated organic lead (RG = 0.5 mg/kg) results in two of the sidewalls and at the bottom (SW01-3'=0.58 mg/kg, SW04-3' = 0.74 mg/kg; B01-6' = 0.54 mg/kg). Overexcavation underway
- 23-3 sample results met RGs

RU-C4 Summary (cont'd) (24-1 and 24-2)



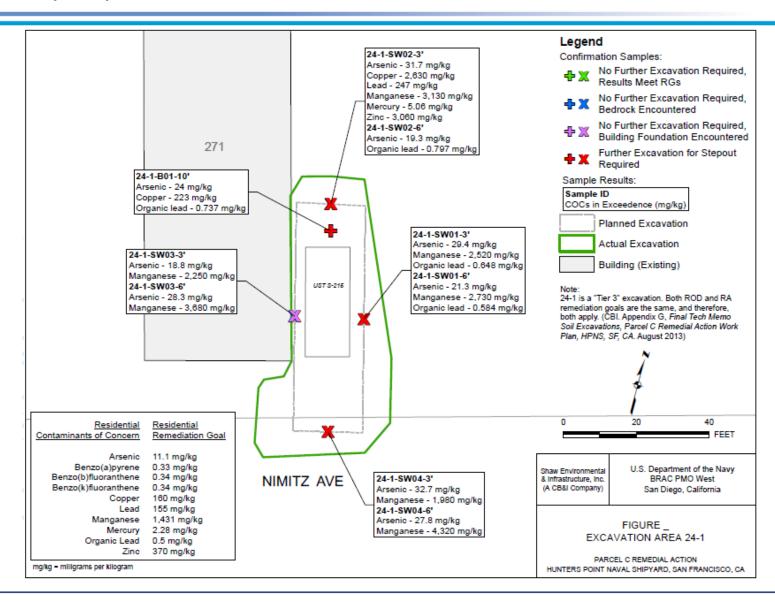
- 24-1 and 24-2 were excavated and sampled in January
- 24-1 contains UST S-215
- Confirmation sample results had exceedences of various metals (arsenic, manganese, organic lead) => over-excavations of each sidewall (except the one that abuts Building 271) and the bottom were conducted. Sample results pending
- 24-2 samples met RGs with the exception of the bottom sample which exceeded manganese RG (1,620 mg/kg; RG is 1,431 mg/kg)





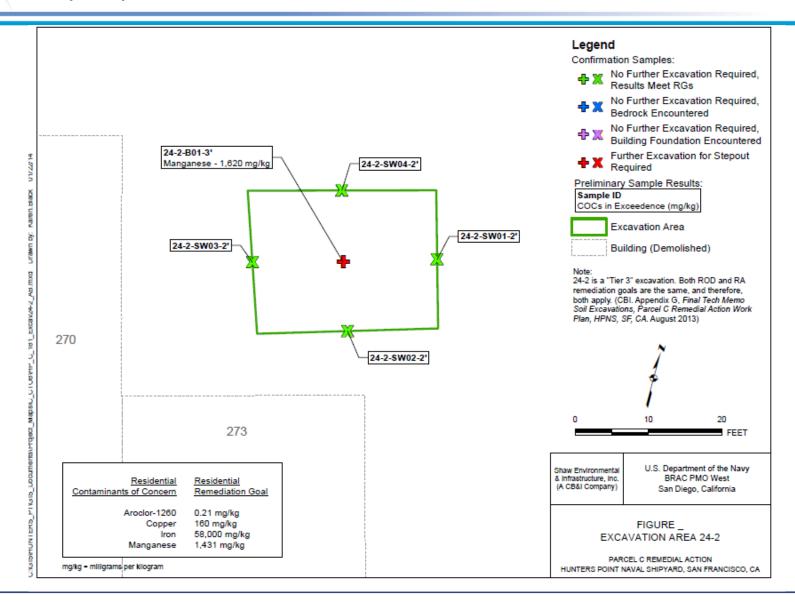
RU-C4 Summary (24-1)





RU-C4 Summary (24-2)





RU-C4 Summary (cont'd) (24-5)

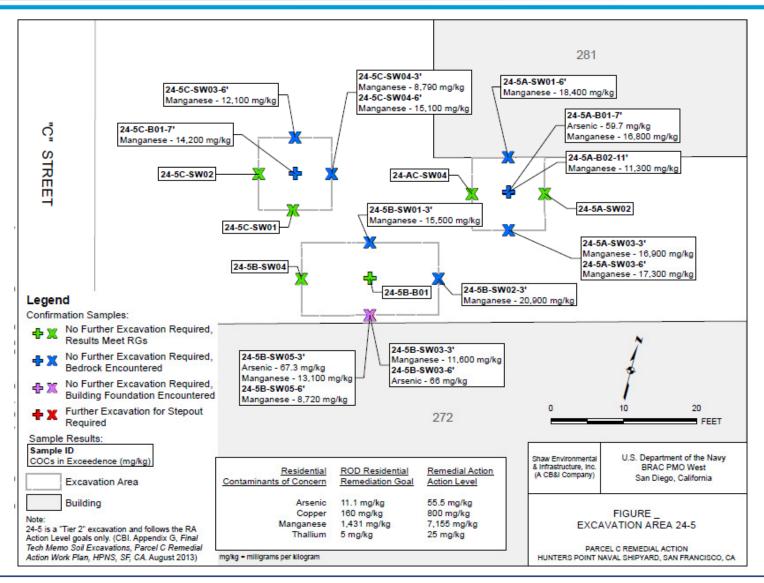


- Excavation 24-5: A "Tier 2" excavation. Excavation complete. Bedrock encountered, sampled, and no further excavation conducted
- 24-5 was backfilled on November 26 and 27 to facilitate access to neighboring excavations



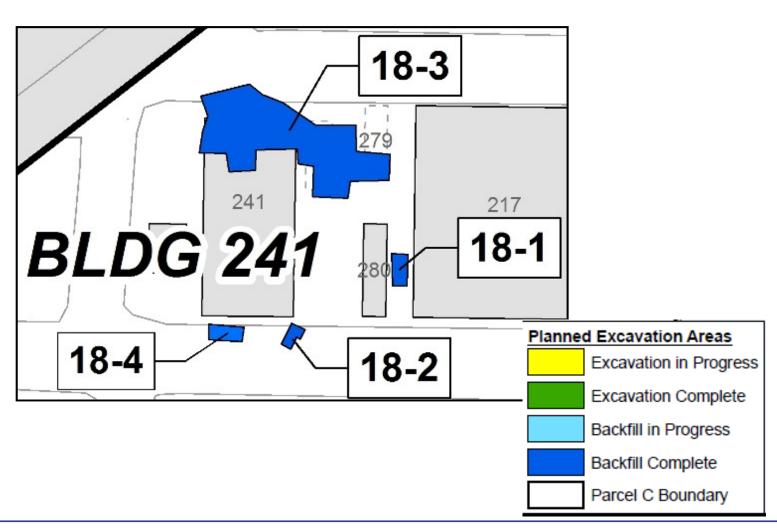
RU-C4 Excavation 24-5





Building 241 Summary (18-1, 18-2, 18-3, and 18-4)





Building 241 Summary (18-1, 18-2, 18-3, and 18-4)





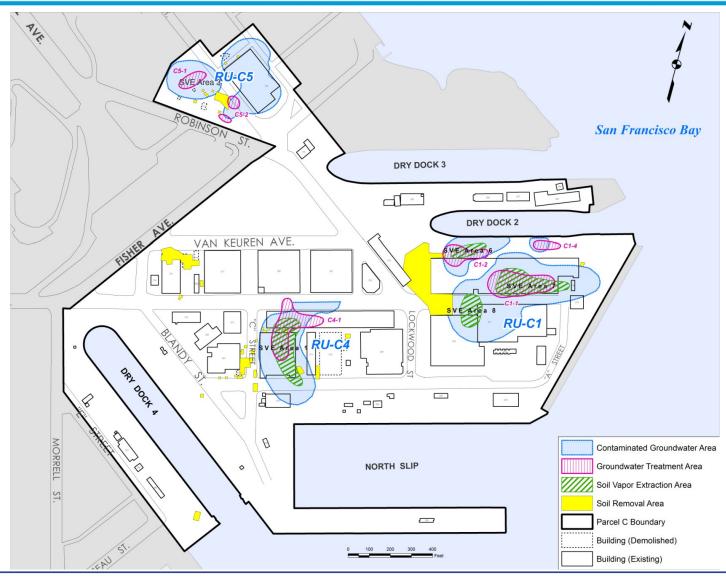




• Excavations18-1, 18-2, 18-3, and 18-4 - Final compaction and grading is underway.

Parcel C Injection Locations and SVE System Locations

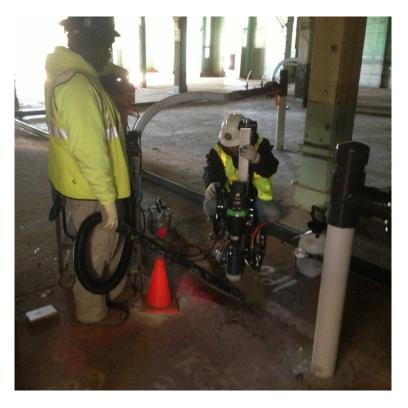




Parcel C Groundwater Remedy Summary



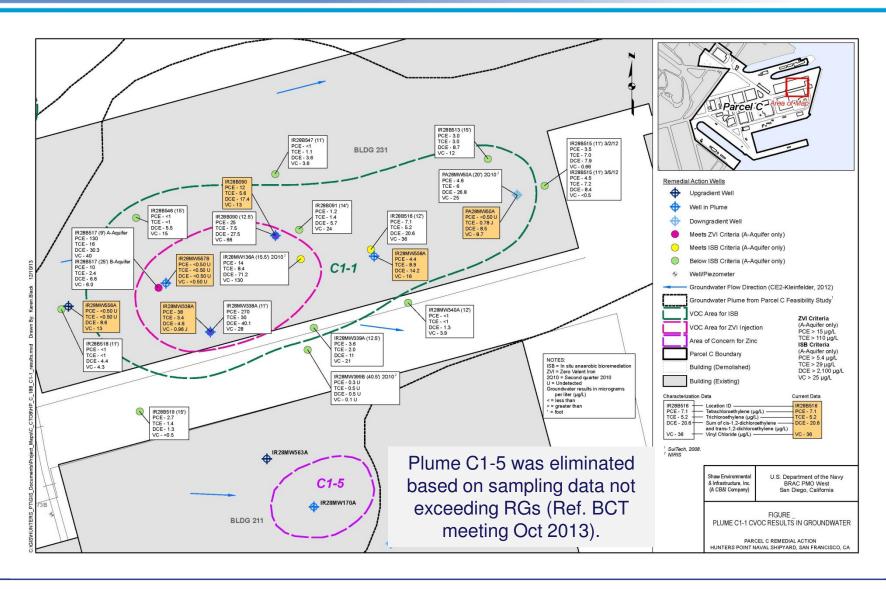
- Installed, developed, and baseline sampled (Dec 2013 and Jan 2014):
 - -6 wells in Plume C1-1
 - -4 wells in Plume C1-2
 - -3 wells in Plume C1-4
 - -2 wells in Plume C4-1
 - -4 well in Plume C5-1, and
 - –4 wells in Plume C5-2 (C5-1 and C5-2 both utilized well IR06MW32A)
- Injection subcontractor mobilized to site 2nd week of January.



Injection point concrete coring in Building 272

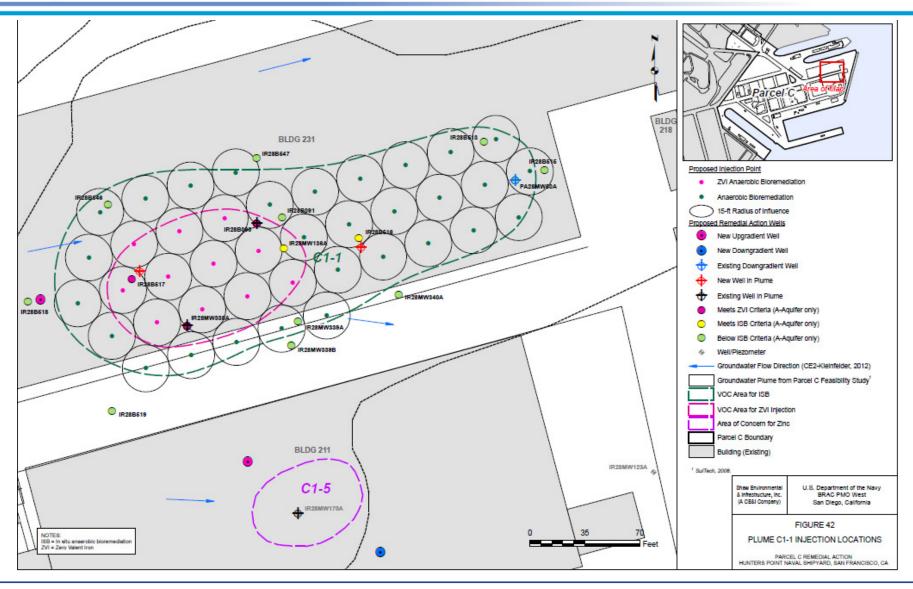
RU-C1 Plume C1-1 2013 Baseline Sampling Results





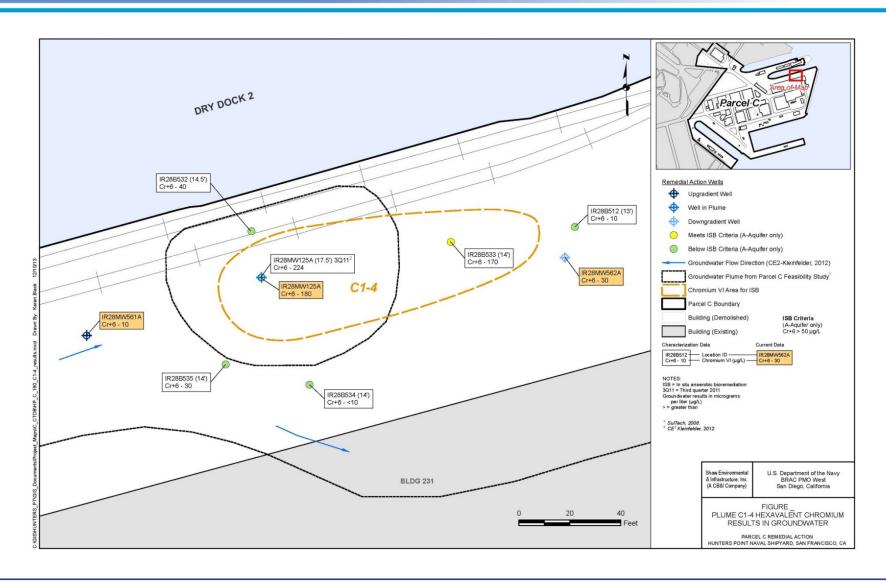
RU-C1 Plume C1-1 Planned Injection Locations





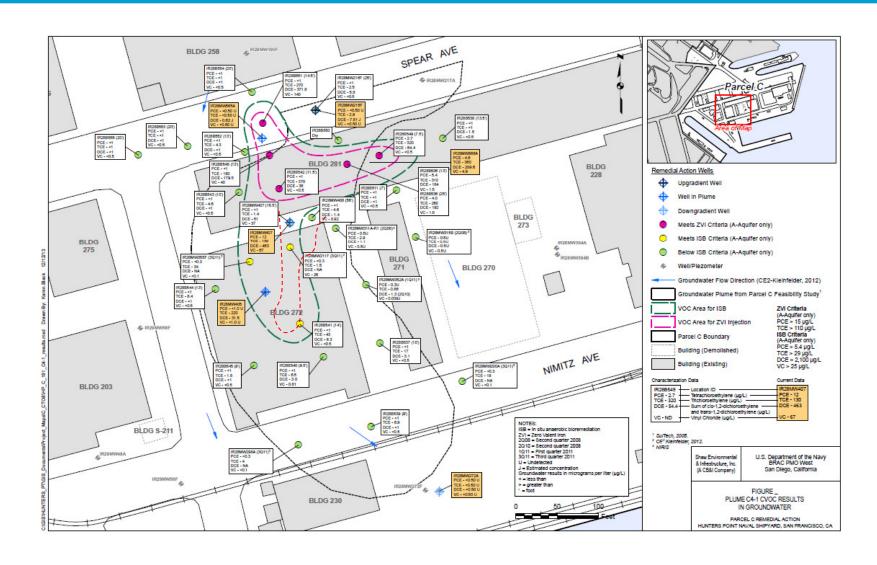
RU-C1 Plume C1-4 2013 Baseline Sampling Results





RU-C4 Plume C4-1 2013 Baseline Sampling Results

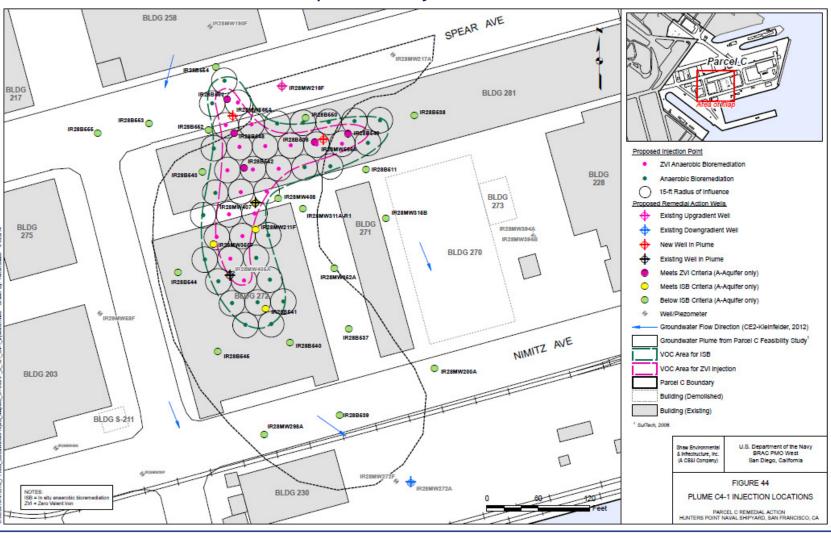




RU-C4 Plume C4-1 Planned Injection Locations

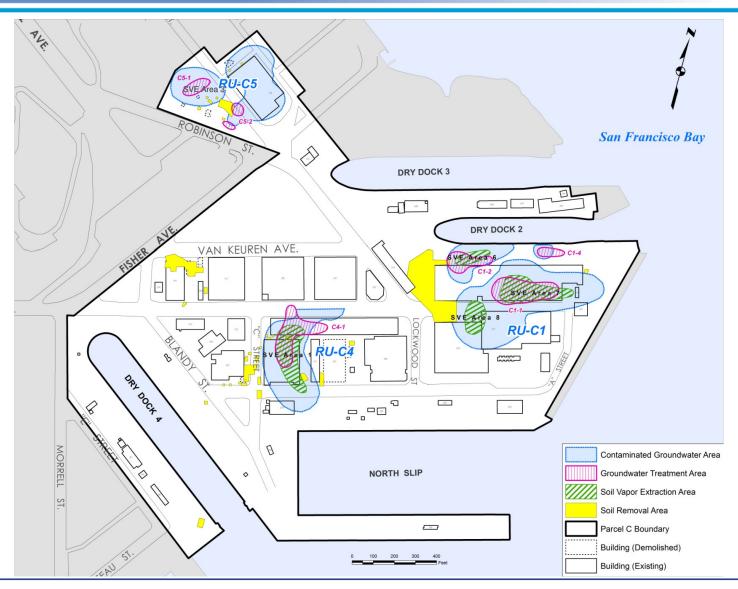


Plume C4-1 Planned Expanded Injection Locations



Parcel C SVE System Locations





BRAC Program Management Office.

SVE System Summary



COMPLETED:

- All well head manifolds have been constructed and installed for all four systems (SVE Areas 1, 3, 6/7, and 8)
- Concrete pads and SVE skid systems have been placed at three of the four locations
- •SVE System Startup testing ("shake-down") was successfully completed at RU-C4 (SVE 1) on January 22, 2014
- Baseline sampling has been completed at all sites

WHAT'S LEFT:

- Installation of piping as well as skid systems
- Placement of concrete pads
- System startup testing at the remaining three locations (some pending completion of excavations, compaction, and grading)

What's Next



- Completing remaining over-excavation locations in RU-C4
- Complete backfilling of remaining excavations (approx 75 percent complete)
- Continue waste characterization sampling of stockpiles for future T&D (by the Basewide T&D contractor)
- Complete replacement monitoring well installation for wells removed during excavation
- Survey coordinates for the most recently installed monitoring wells and Bldg 253 SVE soil vapor wells
- Complete compaction and grading (including RU-C5 area Plumes C5-1 and C5-2) and installation of SVE system in SVE Area 3
- Complete SVE system installation and shake-down of three systems

Schedule



Activity	Date
Complete Over-excavations As Needed	September 2013 – January 2014
Import Clean Backfill	October – December 2013
Placement of Backfill and Site Restoration	October 2013 – January 2014
Continue Concrete Coring and Well Installation	September 2013 – January 2014
SVE System Assembly and Installation	October 2013 – January 2014
Baseline Groundwater Sampling - Complete	January 2014
Start Remedial Injection Bio and ZVI	January 2014
Post-injection Groundwater Sampling	(est.) March 2014